	Application No.		
Notice of Allowability	10/046,557		
	Examiner	Art Unit	
	 Monique M Wills	1746	
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet with (OR REMAINS) CLOSED in or other appropriate commits (GHTS). This application is a and MPEP 1308.	n this application. If not inclu- unication will be mailed in du	ded e course. THIS
1. A This communication is responsive to the telephone conference.	ence on April 30, 2004.		•
2. ☑ The allowed claim(s) is/are <u>1-22 and 24-26</u> .			
3. \boxtimes The drawings filed on <u>16 January 2002</u> are accepted by th	e Examiner.		
 4. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	e been received. e been received in Application	on No	ation from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the r	equirements
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 			NOTICE OF
 CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner' Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the such as the sheet in the such as the such as the sheet in the such as the such as	son's Patent Drawing Revie s Amendment / Comment o .84(c)) should be written on t he header according to 37 C	r in the Office action of the drawings in the front (not the FR 1.121(d).	
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 			Note the
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. Interview S Paper No. 7. Examiner's	nformal Patent Application (P Summary (PTO-413), ./Mail Date s Amendment/Comment s Statement of Reasons for Al 	ŕ

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DETAILED ACTION

Authorization for this amendment was confirmed after the Office Action mailed on May 4, 2004. Therefore, this Reasons For Allowance supercedes the Office Action mailed May 4, 2004.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Darleen J. Stockley on April 30, 2004.

The application has been amended as follows:

In claim 4, line 5, after "As" insert "to form at least two surface-treatment layers, each of said surface-treatment layers comprising at least one compound selected from the group consisting of a coating-element-included hydroxide, a coating-element-included oxyhydroxide, a coating-element-included oxycarbonate, and a coating-element-included hydroxycarbonate;"

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EXAMINER'S REASONS FOR ALLOWANCE

Claims 1-3 are allowable over the prior art of record, because the prior art is silent to a lithiated compound coated with at least two surface-treatment layers, wherein the coating comprises Al, Si, Ti, Sn, V, Ge, Ga, B or As in a compound form of hydroxide, oxyhydroxide, oxycarbonate or hydroxycarbonate.

Claims 4-5 & 9-10 are allowable over the prior art of record, because the prior art is silent to a method of preparing a positive active material comprising: coating a lithiated compound with at least two coating elements selected from Al, Si, Ti, Sn, V, Ge, Ga, B or As, to form at least two surface-treatment layers, wherein each of said surface-treatment layers comprises at least one compound selected from the group consisting of a coating-element-included hydroxide, a coating-element-included oxyhydroxide, a coating-element-included oxyhydroxide, and a coating-element-included hydroxycarbonate.

Claims 11 & 15 are allowable over the prior art of record, because the prior art is silent to a lithiated compound coated with a first surface-treatment layer comprising an Al-included hydroxide, Al-included oxyhydroxide, Al-included oxycarbonate or Al-included hydroxycarbonate, and a second surface-treatment layer comprising at least one of Si-included hydroxide, Si-included oxyhydroxide, Si-included oxycarbonate or Si-included hydroxycarbonate.

Claims 12-14 & 16-18 are allowable over the prior art of record, because the prior art is silent to a method of fabricating a positive active material for a rechargeable lithium battery comprising, coating a lithium-cobalt based compound with an Al coating liquid and Si coating liquid.

Claims 19-22 are allowable over the prior art of record, because the prior art is

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silent to a method of preparing a positive active material comprising: coating a lithiated compound with a first surface treatment layer and a second treatment layer, wherein the first and second coatings are sequentially layered, and the coating elements are selected from Al, Si, Ti, Sn, V, Ge, Ga, B or As.

Claims 24-26 are allowable over the prior art of record, because the prior art is silent to a positive active material comprising a lithiated compound coated with, sequentially layered, first surface treatment layer and a second treatment layer, wherein the first and second coating elements are selected from Al, Si, Ti, Sn, V, Ge, Ga & B.

The prior art, such as Amatucci et al., U.S. Patent 5,705,291, teaches a lithiated intercalation battery comprising a lithiated compound coated with a mixture of boron oxide, aluminum oxide and/or silicon dioxide. The reference is silent to at least two coatings comprising an Al, Si, Ti, Sn, V, Ge, Ga or B hydroxide, oxyhydroxide, oxycarbonate or hydroxycarbonate. Therefore, the instant claims are patentably distinct from Amatucci.

Conclusion

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Monique Wills whose telephone number is (571) 272-1309. The Examiner can normally be reached on Monday-Friday from 8:30am to 5:00 pm.

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If attempts to reach Examiner by telephone are unsuccessful, the Examiner's supervisor, Randy Gulakowski, may be reached at 571-272-1302. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov.Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MW

5/16/04

FRANKIE L. STINSON PRIMARY EXAMINER GROUP 3466-1700